

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,999		02/14/2002	Ken Takeuchi	001701.00140	9741
22907	7590	05/11/2004		EXAM	INER
	INER & WITCOFF	но, не	HO, HOAI V		
1001 G ST SUITE 11		1 W	02/14/2002 Ken Takeuchi 001701.00140 9741 05/11/2004 EXAMINER HO, HOAI V ART UNIT PAPER NUMBER		
WASHIN	GTON,	DC 20001		2818	
				DATE MAILED: 05/11/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/073,999	TAKEUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoai V. Ho	2818				
Th MAILING DATE of this communication Period for Reply	app ars on the cov r she t w	ith th correspond nc address				
• •	EDI VIQ SET TO EVDIDE 2 M	IONITH(S) EDOM				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a in the statutory minimum of thire risod will apply and will expire SIX (6) MON latute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	22 March 2004.					
	This action is non-final.					
3) Since this application is in condition for all	<u> </u>					
closed in accordance with the practice und	ler <i>Ex part</i> e Quayle, 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 47-67 is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are with	drawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>47-67</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exar	miner.					
10)⊠ The drawing(s) filed on 14 February 2002 is	s/are: a)⊠ accepted or b)□	objected to by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co		, , ,				
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. {	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority document 	nents have been received.					
2. Certified copies of the priority docum	nents have been received in A	Application No. <u>09/667,610</u> .				
3. Copies of the certified copies of the	priority documents have been	received in this National Stage				
application from the International Bu	•					
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)	_	,				
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948		Summary (PTO-413) s)/Mail Date				
2) ☐ Notice of Dransperson's Patent Drawing Review (PTO-946 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SE	, 3/08) 5) ☐ Notice of I	nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) 🔲 Other:					

Application/Control Number: 10/073,999 Page 2

Art Unit: 2818

Response to Amendment

1. This office action is responsive to communication(s) filed on March 22, 2004.

2. Claims 47-67 are presented for examination.

Applicant needs to resubmit a listing of claims because amended claims 47, 48, 59, and 55-57 cannot read the newly added words after they have been scanned because those newly added words are not inked enough black for scanning.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 47-67 are rejected for the same reason as set forth in the previous Office action except for the newly added limitation a "second signal line connected to said second memory cell section, being different from said first signal line" to independent claims 47, 48, 59, and 55-57. Figure 8 of Hemink discloses the second signal line (a section of M1-M4 connects to a transistor S2 of a lower block) connected to said second memory cell section, being different from said first signal line (a section of M1-M4 connects to a similar transistor as S2 of a upper block). See column 9, line 3 to line 12.

5. Claims 46-47 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakui et al. U.

Page 3

S. Patent No. 6307807.

Figure 38 of Sakui is directed to a nonvolatile semiconductor memory comprising: a first memory cell section (MEMORY CELL UNIT BLi) including a first memory cell; a second memory cell section (MEMORY CELL UNIT /BLi) including a second memory cell; a first signal line (BLi) connected to said first memory cell; a second signal line (/BLi) connected to said second memory cell, being different from the first signal line; and a data latch circuit (SENSE AMPLIFIER) connected to one ends of said first and second signal lines and including a latch circuit; wherein first program/read data of said first memory cell (controlling by a signal φa) is latched in said latch second program/read data of said second memory cell is held by said second signal line (controlling by a signal φb).

6. The prior art made of record and not relied upon is considered pertinent to applicants' disclosure. Shibata et al. USP 6122193 in Figure 40, Tanaka et al. USP 5969985 in Figures 61-63 at least, Takeuchi et al. USP 5920507in Figures 29 and 34 disclose a nonvolatile semiconductor memory device.

Response to Arguments

7. Applicants' arguments have been fully considered but they are not persuasive.

Applicants argue that "... according to Hemink et al, the first and second signal lines ... are in fact the same line." The Examiner disagrees with this statement, because Figure 8 of Hemink discloses that the first signal line belongs to the upper block of the memory cells and connects to the bit line BL by a switch such as S2 in the lower block; and the second signal line belongs to the lower block and connects to the bit line BL by a switch S2.

Figure 38 of Sakui, in view of the new ground of rejection, also discloses; a first signal line (BLi) connected to said first memory cell; a second signal line (/BLi) connected to said second memory cell, being different from the first signal line.

Page 4

For the above reasons, it is believed that the rejections should be sustained. Feature of an invention not found in the claims can be given no patentable weight in distinguishing the claimed invention over the prior art.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 8. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (571) 272-1777. Other inquiries of this application should be called to (571) 272-1562 or the fax number (703) 872-9306.

Application/Control Number: 10/073,999 Page 5

Art Unit: 2818

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Н. Но

April 21, 2004

Hoai V. Ho

Primary Examiner

Art Unit 2818